

# while

While loops begin by testing a condition. If it is true, then they execute the loop body. Once the loop body is executed, the condition is tested again, and so forth.

```
count <- 0
while(count < 10) {
  print(count)
  count <- count + 1
}
```

While loops can potentially result in infinite loops if not written properly. Use with care!

# while

Sometimes there will be more than one condition in the test.

```
z <- 5

while(z >= 3 && z <= 10) {
  print(z)
  coin <- rbinom(1, 1, 0.5)

  if(coin == 1) { ## random walk
    z <- z + 1
  } else {
    z <- z - 1
  }
}
```

Conditions are always evaluated from left to right.